

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-162490

(43)Date of publication of application : 18.06.1999 *invalid*

(51)Int.Cl.

H01M 8/04

H01M 8/10

(21)Application number : 09-322967

(71)Applicant : TOSHIBA CORP

(22)Date of filing : 25.11.1997

(72)Inventor : SAITO KAZUO

KOGAMI TAJI

UENO SANJI

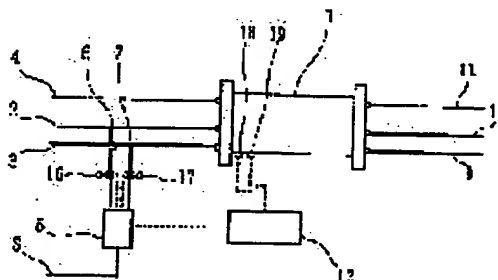
TOMOSAWA HIROSHI

(54) SOLID POLYMER ELECTROLYTE FUEL CELL SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a solid polymer electrolyte fuel cell system capable of controlling the humidification quantity to reaction gas so that fuel cells can be operated in the optimum state even when the operating condition such as the load condition is changed.

SOLUTION: A fuel feed pipe 2, an air feed pipe 3, a cooling water feed pipe 4, a fuel gas discharge pipe 10, an air discharge pipe 9 and a cooling water discharge pipe 11 are connected to a cell stack 1 of solid polymer electrolyte fuel cells. A steam generating device 5 is connected to the fuel feed pipe 2 and the air feed pipe 3. Flow control valves 16, 17 are provided on the passages to the fuel feed pipe 2 and the air feed pipe 3 from the steam generating device 5. A water feed pipe 8 is connected to the steam generating device 5, and a resistance value sensor 18 and a voltage sensor 19 are assembled in the cell stack 1. The resistance value sensor 18 and the voltage sensor 19 are connected to a control device 12, and the control device 12 is connected to the steam generating device 5.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of reiection]